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VLSI ARRAY PROCESSOR R&D STATUS REPORT

DARPA ORDER NO.4001

CONTRACT NO. N00014-80-C-0693

CONTRACT DATE: August 1, 1980

PRINICPAL INVESTIGATOR: Ed Greenwood

PHONE: (602) 949-3394

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JULY 19, 1982

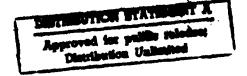
REPORTING PERIOD - March 31, 1982 thru June 30, 1982

APPROVED BY:

Dale Fadley

Section Manager

Tactical Secure Systems



82 07 29 061



The Arithmetic Processior Unit (APU) database design check was completed. Minor design rule violations and design improvements were accomplished.

The APU mask set has been fabricated and checked. Initial checking of all mask layers revealed a design rule problem in one layer. That layer was corrected, refabricated and checked out. The mask set has been delivered to the chip fabrication area. The fabrication process has been initiated.

All work on the Array Processor Demonstration System (APDS) has been suspended at CHI until the additionally requested funding was received. That funding has been authorized and CHI will begin work on the APDS in July.

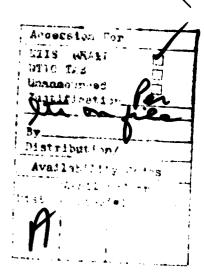
The following activities are planned in the following quarter:

- 1) Complete fabrication of the first lot of VLSI APU devices.
- 2) Complete integration and check-out of the APDS simulator.
- 3) Complete integration and check-out of the APU breadboard.
- 4) Verify the VLSI APU wafer tests with the APU breadboard.
- 5) Complete check-out of the APDS using the APU breadboard.

No technical problems are foreseen at this time.

A funds expenditure report is attached.





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Date Prepared July 13, 1982
Contract No. N00014-80-C-0693
Contractor Motorola Inc. GEG

FUNDS EXPENDITURE REPORT *

Summary: Work Package Title Array Processor Report Month June 1982

Column A	Column B Latest Accepted	Column C Reporting Month	n)	Column D Cumulative Expenditures To Date	ures	Column E Cost Complete	Column F Latest Cost
ORIGINAL PROPOSAL	Revised Proposals (if any)	Expendi- tures	DI Total Man Hours	D2 Dollar Value	D3• Percentage Dollar Value	estimate	Estimate (D2 plus E)
I. DINECT LABOR							
Type No. of Hours@ Rate Total Total Direct Labor 161,363		3,629	13,926	210,015	130.2	45,993	256,008
Overhead 155,230 Total direct labor & O'Head 316, 503		3,281		199,990	128.2	44,787	244,777
2. MATERIALS & PARTS 500,256		39,759		393,281	78.6	194,493	587,774
3. TRAVEL EXPENSE 20,120		827		10,626	52.8	11,981	22,607
4. COST OF MONEY 9,900		1,782		26,140	264.0	2,910	29,050
5. GEN & ADMN 156,938	and the second	9,712		158,175	100.8	48,823	206,998
6. OTHER COSTS 86, 193 TOTAL COSTS 1, 090, 000		8,086		76.237	88.4	5.070	1.428.521
7. FIXED FEE (OR PROFIT) 99,000		6,092		97,589	98.6	1,411	000,66
TOTAL CONTRACT PRICE 1,189,000		73,168		1,172,053	98.6	355,468	1,527,521
EXPENDITURES 1,189,000		73,168		1,172,053	9.86	355,468	1,527,521
*Based on original contract fund	funding limitations	tions			·		
		1 TAN 2/0					148

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